

What is claimed is:

- 5 1. An architecture for a netcentric computing system, comprising:
 a business solutions architecture layer;
 an application architecture layer in communication with said business
 solutions layer;
 a technical architecture layer in communication with said application
 architecture layer; and
 a platform architecture layer in communication with said technical
 architecture layer.
- 10 2. The architecture for a netcentric computing system of claim 1,
 wherein said business solutions architecture layer includes an environment layer, a
 business requirements layer and a data architecture layer.
- 15 3. The architecture for a netcentric computing system of claim 1,
 wherein said technical architecture layer includes an infrastructure layer and a
 system software layer.
- 20 4. The architecture for a netcentric computing system of claim 1,
 wherein said platform architecture layer includes a hardware/network layer
5. The architecture for a netcentric computing system of claim 3,
 wherein said system software layer includes a netcentric execution architecture, a
 development architecture and an operations architecture.
- 25 6. The architecture for a netcentric computing system of claim 5,
 wherein said netcentric execution architecture includes presentation services,
 information services, communication services, communication fabric services,
 transaction services, environment services, base services, and business logic
30 services.
7. The architecture for a netcentric computing system of claim 5,
 wherein said development architecture includes a common user interface, at least
 one process management tool, at least one personal productivity tool, at least one

quality management tool, at least one systems building tool, at least one environment management tool, at least one program and project management tool, at least one team productivity tool and at least one information management tool.

5 8. The architecture for a netcentric computing system of claim 5,
wherein said operations architecture includes software distribution tools,
configuration and asset management tools, fault management and recovery
management tools, capacity planning tools, performance management tools, license
10 management tools, remote management tools, event management tools, monitoring
and tuning tools, security tools, user administration tools, production control tools
and help desk tools.

 9. The architecture for a netcentric computing system of claim 2,
wherein said environment layer includes at least one application for processing
15 business-level processes.

 10. The architecture for a netcentric computing system of claim 2,
wherein said business requirements layer includes at least one application for
providing products and services to the users of said netcentric computing system.
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 11. The architecture for a netcentric computing system of claim 2,
wherein said data architecture layer includes applications for handling data
requirements of users of said netcentric computing system.

25 12. The architecture for a netcentric computing system of claim 3,
wherein said infrastructure layer supports applications of the application architecture
that are used by multiple applications in said netcentric computing system.

 13. The architecture for a netcentric computing system of claim 4,
30 wherein said hardware/network layer includes at least one server that is connected
with an Internet connection.

 14. The architecture for a netcentric computing system of claim 13,
wherein said server is a web server.

15. The architecture for a netcentric computing system of claim 1,
wherein said application architecture layer includes at least one application that
provides automated support for a business transaction that involves the transfer of
5 data to or from said netcentric computing system to a user.

16. The architecture for a netcentric computing system of claim 7,
wherein said quality management tools may be selected from the group consisting of
quality function deployment tools, measurement tools, statistical tools and
10 improvement tools.

17. The architecture for a netcentric computing system of claim 7,
wherein said system building tools may be selected from the group consisting of
analysis and design tools, reverse engineering tools, construction tools, testing tools
15 and configuration management tools.

18. The architecture for a netcentric computing system of claim 7,
wherein said environment management tools may be selected from the group
consisting of service management tools, systems management tools, update
20 management tools and service planning tools.

19. The architecture for a netcentric computing system of claim 7,
wherein said program and project management tools may be selected from the group
consisting of planning tools, scheduling tools, tracking tools and reporting tools.
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20. The architecture for a netcentric computing system of claim 7,
wherein said team productivity tools may be selected from the group consisting of e-
mail tools, teamware tools, publishing tools, group calendar tools and methodology
browsing tools.
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21. The architecture for a netcentric computing system of claim 7,
wherein said information management tools includes folder management tools and
repository management tools, wherein said folder management tools and said

repository management tools provide access to a common repository of development objects, design documents, source code and data files.

22. The architecture for a netcentric computing system of claim 6,
5 wherein said presentation services may be selected from the group consisting of desktop manager services, direct manipulation services, forms services, input device services, report and print services, user navigation services, web browser services and window system services.

10 23. The architecture for a netcentric computing system of claim 6, wherein said information services includes database services and document services.

24. The architecture for a netcentric computing system of claim 23,
15 wherein said database services includes storage services, indexing services, security services, access services and replication/synchronization services.

25. The architecture for a netcentric computing system of claim 23,
20 wherein said document services includes storage services, indexing services, security services, access services, replication/synchronization services and versioning services.

26. The architecture for a netcentric computing system of claim 6,
25 wherein said communication services may be selected from the group consisting of core messaging services, specialized messaging services, communication security services, virtual resource services and directory services.

27. The architecture for a netcentric computing system of claim 26,
wherein said communications services include file transfer services, remote procedure call services, message-oriented services and streaming services.

30 28. The architecture for a netcentric computing system of claim 26, wherein said specialized messaging services may be selected from the group consisting of e-mail messaging services, database access messaging services, object request broker messaging services, computer-telephone integration messaging

services, electronic data interchange messaging services and legacy integration messaging services.

29. The architecture for a netcentric computing system of claim 26,
5 wherein said communication security services may be selected from the group consisting of encryption services, identification/authentication services and access control services.

30. The architecture for a netcentric computing system of claim 26,
10 wherein said virtual resource services may be selected from the group consisting of fax services, file sharing services, paging services, phone services, terminal services, printing services and audio/video services.

31. The architecture for a netcentric computing system of claim 6,
15 wherein said communication fabric services include transport services and network media services.

32. The architecture for a netcentric computing system of claim 31,
20 wherein said transport services may be selected from the group consisting of message transport services, packet forwarding/Internetworking services, circuit switching services, transport security services, network address allocation services and quality of service services.

33. The architecture for a netcentric computing system of claim 31,
25 wherein said network media services includes media access services and physical media services.

34. The architecture for a netcentric computing system of claim 6,
30 wherein said environment services may be selected from the group consisting of runtime services, system services, application services, component framework services and operating system services.

35. The architecture for a netcentric computing system of claim 34, wherein said runtime services includes language interpreter services and virtual machine services.

5 36. The architecture for a netcentric computing system of claim 34, wherein said system services may be selected from the group consisting of system security services, profile management services, environment verification services and task and memory management services.

10 37. The architecture for a netcentric computing system of claim 34, wherein said application services may be selected from the group consisting of application security services, error handling/logging services, state management services, code table services, active help services, file services, application integration interface services and common services.

15 38. The architecture for a netcentric computing system of claim 6, wherein said transaction services may be selected from the group consisting of transaction monitor services, resource management services, transaction management services and transaction partitioning services.

20 39. The architecture for a netcentric computing system of claim 6, wherein said base services may be selected from the group consisting of web server services, push/pull services, batch services, base report services and workflow services.

25 40. The architecture for a netcentric computing system of claim 39, wherein said batch services may be selected from the group consisting of driver services, restart/recovery services, batch balancing services and batch report services.

30 41. The architecture for a netcentric computing system of claim 39, wherein said workflow services may be selected from the group consisting of role management services, route management services, rule management services and queue management services.

42. The architecture for a netcentric computing system of claim 6, wherein said business logic services may be selected from the group consisting of interface logic, application logic and database abstraction.

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43. The architecture for a netcentric computing system of claim 5, wherein said operations architecture includes a plurality of operations tools, wherein said operations tools may be selected from the group consisting of software distribution tools, configuration and asset management tools, fault management and recovery tools, capacity planning tools, performance management tools, license management tools, remote management tools, event management tools, monitoring and tuning tools, security tools, user administration tools, production control tools and help desk tools.

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44. A netcentric computing system, comprising:
a business solutions architecture layer including an environment layer, a business requirements layer and a data architecture layer;
an application architecture layer in communication with said business solutions layer;
a technical architecture layer that includes an infrastructure layer and a system software layer in communication with said application architecture layer, said system software layer including a netcentric execution architecture, a development architecture and an operations architecture; and
a platform architecture layer in communication with said technical architecture layer, wherein said platform architecture layer includes a hardware/network layer.

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45. The netcentric computing system of claim 44, wherein said netcentric execution architecture includes presentation services, information services, communication services, communication fabric services, transaction services, environment services, base services, and business logic services.

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46. The netcentric computing system of claim 44, wherein said development architecture includes a common user interface, at least one process management tool, at least one personal productivity tool, at least one quality management tool, at least one systems building tool, at least one environment management tool, at least one program and project management tool, at least one team productivity tool and at least one information management tool.

47. The netcentric computing system of claim 44, wherein said operations architecture includes software distribution tools, configuration and asset management tools, fault management and recovery management tools, capacity planning tools, performance management tools, license management tools, remote management tools, event management tools, monitoring and tuning tools, security tools, user administration tools, production control tools and help desk tools.